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**A Web-based System for Retrieving Document Images from Digital Library**

Zhang, Li; Lu, Yue; Tan, Chew Lim;

Computer Vision and Pattern Recognition Workshop, 2003. CVPRW '03. Conference on

Volume: 3

Digital Object Identifier: [10.1109/CVPRW.2003.10025](https://doi.org/10.1109/CVPRW.2003.10025)

Publication Year: 2003, Page(s): 27 - 27

IEEE Conferences

 [AbstractPlus](#) | Full Text: [PDF](#) (245 KB)**Multimedia indexing and fast retrieval based on a vote system**

Philipp-Foliguet, S.; Logerot, G.; Constant, P.; Gosselin, P.H.; Lahanier, C.;

Multimedia and Expo, 2006 IEEE International Conference onDigital Object Identifier: [10.1109/ICME.2006.262897](https://doi.org/10.1109/ICME.2006.262897)

Publication Year: 2006, Page(s): 1781 - 1784

IEEE Conferences

 [AbstractPlus](#) | Full Text: [PDF](#) (248 KB)**An OAI compliant content-based image search component**

Torres, R.S.; Medeiros, C.B.; Goncalves, M.A.; Fox, E.A.;

Digital Libraries, 2004. Proceedings of the 2004 Joint ACM/IEEE Conference onDigital Object Identifier: [10.1109/ICDL.2004.1336222](https://doi.org/10.1109/ICDL.2004.1336222)

Publication Year: 2004

IEEE Conferences

 [AbstractPlus](#) | Full Text: [PDF](#) (286 KB)



### A human-oriented image retrieval system using interactive genetic algorithm

Sung-Bae Cho; Joo-Young Lee;

Systems, Man and Cybernetics, Part A: Systems and Humans, IEEE Transactions on

Volume: 32 , Issue: 3

Digital Object Identifier: [10.1109/TSMCA.2002.802812](https://doi.org/10.1109/TSMCA.2002.802812)

Publication Year: 2002 , Page(s): 452 - 458

IEEE Journals

[AbstractPlus](#), | Full Text: [PDF](#) (2728 KB)



### Pattern retrieval in image databases based on adaptive signal decomposition

Ma, W.Y.; Manjunath, B.S.;

Signals, Systems and Computers, 1994. 1994 Conference Record of the Twenty-Eighth Asilomar Conference on

Volume: 2

Digital Object Identifier: [10.1109/ACSSC.1994.471678](https://doi.org/10.1109/ACSSC.1994.471678)

Publication Year: 1994 , Page(s): 1351 - 1355 vol.2

IEEE Conferences

[AbstractPlus](#), | Full Text: [PDF](#) (516 KB)



Efficient retrieval of information from image and other multimedia databases is an important and challenging problem. Among techniques developed for this purpose, query by example is the most effective way for searching large collections of images. In this paper we propose a new approach to extracting image features based on the local intensity pattern. The user can select any region of interest within an image and request that the system retrieve all similar looking patterns. No domain specific or context information is used in analysis, and the feature representation has desirable properties such as reduced dimensionality, preserving perceptual similarity, and offering a natural hierarchical indexing structure. Experimental results are presented [Read More»](#)



### Digital image indexing and retrieval by content using the fractal transform for multimedia databases

Marie-Julie, J.M.; Essafi, H.;

Research and Technology Advances in Digital Libraries, 1997. ADL '97. Proceedings., IEEE International Forum on

Digital Object Identifier: [10.1109/ADL.1997.601195](https://doi.org/10.1109/ADL.1997.601195)

Publication Year: 1997, Page(s): 2 - 12

IEEE Conferences

 AbstractPlus | Full Text: [PDF](#) (1028 KB)


Digital image database represent huge amount of data, automatic indexing and content base retrieval are crucial factors. Content base retrieval requests specific indexing techniques allowing to deal with efficient data representations (reduced amount of data and adapted to content base retrieval) in order to avoid prohibitive low level process time on queries. We present a method consisting in building an "iconic" level image representation presenting the semantic, allowing to process content base retrieval and to reconstruct the image. This representation consists in a set of function parameters. It is a semantic presenting compression built by using a dedicated fractal compress scheme. To search patterns in a huge set of images, a specific algorithm allows to use this "iconic" representation as an index. It works entirely in the fractal transform parameter space of both image and pattern, to obtain performances compatible with an interactive search. The research engine uses both textures and edges of the pattern. The pattern can be present in the image with different orientations and/or scales by using a multiresolution fractal representation of the pattern. This method allows to retrieve in 3 seconds a 64x64 pixels pattern in an 100 images (512x512 pixels) database, on a SUN Spare 20 workstation. It can be combined with other indexing and retrieval techniques, such as textual annotation [Read More»](#)

## VORTEX: Video retrieval and tracking from compressed multimedia databases-visual search engine

Schonfeld, D.; Lelescu, D.;

[System Sciences, 1999. HICSS-32. Proceedings of the 32nd Annual Hawaii International Conference on](#)

Volume: Track3

Digital Object Identifier: [10.1.109/HICSS.1999.772820](#)

Publication Year: 1999

IEEE Conferences

 AbstractPlus | Full Text: [PDF](#) (244 KB)


Multimedia data is generally stored in compressed form in order to efficiently utilize the available storage facilities. Access to archives is dependent on our ability to browse compressed multimedia information-retrieval and tracking from coded video databases. In this paper, a novel visual search engine for video retrieval and tracking from compressed multimedia databases is proposed. The goal of the project is the implementation of a visual browser that operates in a distributed environment where users initiate video searches and retrieve relevant video information simultaneously from multiple video archives. Being presented with a query in the form of template images of objects, the system operates on the compressed video to find the images or video sequences where those objects are present and their positions in the image. Upon user's request, the system will decompress and display only the video sequences of interest [Read More»](#)

## Retrieving imaged documents in digital libraries based on word image coding

Yue Lu; Li Zhang; Tan, C.L.;

[Document Image Analysis for Libraries, 2004. Proceedings. First International Workshop on](#)Digital Object Identifier: [10.1.109/DIAL.2004.1263247](#)

Publication Year: 2004, Page(s): 174 - 187

IEEE Conferences

 AbstractPlus | Full Text: [PDF](#) (683 KB)


### A new representation and similarity retrieval algorithm for spatial databases

Been-Chian Chien; Peir-Cheng Chieng;

Systems, Man, and Cybernetics, 1997. Computational Cybernetics and Simulation', 1997 IEEE International Conference on

Volume: 3

Digital Object Identifier: [10.1109/ICSMC.1997.635288](#)

Publication Year: 1997, Page(s): 2409 - 2413 vol.3

IEEE Conferences

 AbstractPlus | Full Text: [PDF](#) (392 KB)


Content-based retrieval of images is an important task in applications of image databases. A major class of users' requests requires retrieving the images in the database that are spatially similar to the query image. Most systems of previous approaches provided search capability making use of a data structure to represent the features of relationships among the objects in a picture, such as 2D-String and 2D-PIR. The 2D-String described the directional relationships by a two-dimensional string. The 2D-PIR used a three-dimensional notation to represent the topological and directional relationships. In this paper, we propose a new representation that integrates not only the direction relationships but also the distance relationships. The measuring function and the similarity retrieval algorithm based on the new representation is designed. We also show that the new similarity retrieval algorithm will have a better precision than the method of 2D-PIR by examples [Read More»](#)



### A novel scheme for retrieval of handwritten textual annotations for information just in time (IJIT)

Basu, S.; Kouske Konishi; Furukawa, N.; Ikeda, H.;

TENCON 2008 - 2008 IEEE Region 10 ConferenceDigital Object Identifier: [10.1109/TENCON.2008.4766776](#)

Publication Year: 2008, Page(s): 1 - 6

IEEE Conferences

 AbstractPlus | Full Text: [PDF](#) (440 KB)


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